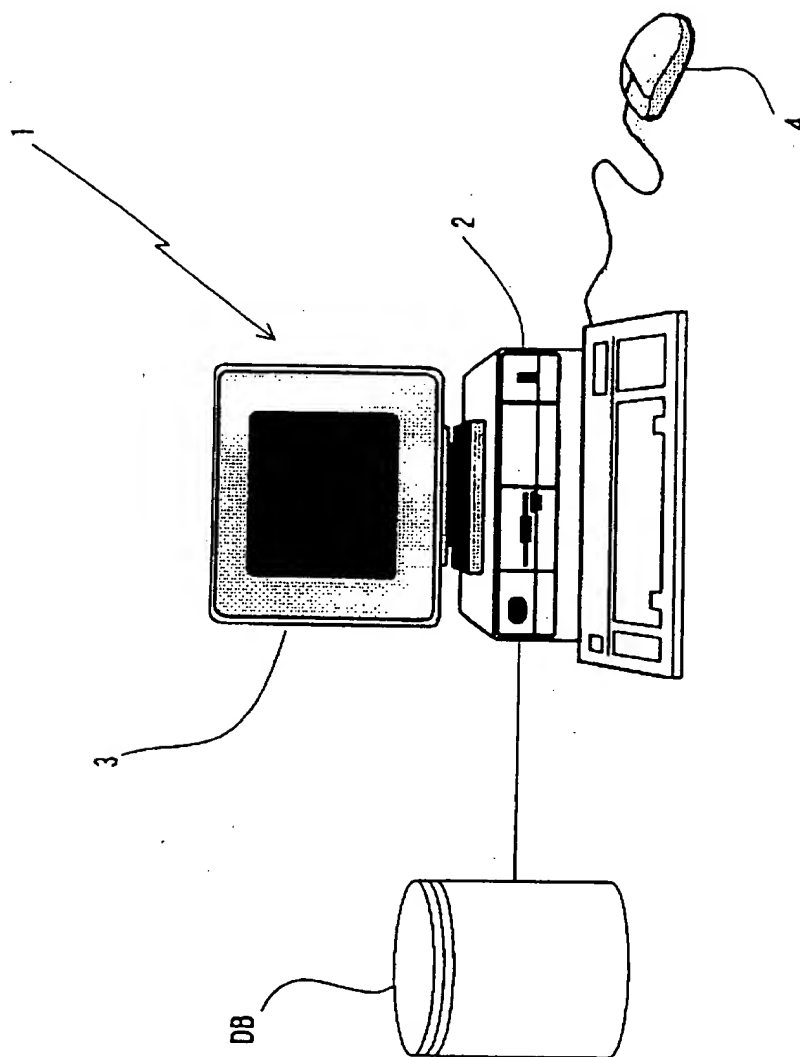


[Document type] Drawing

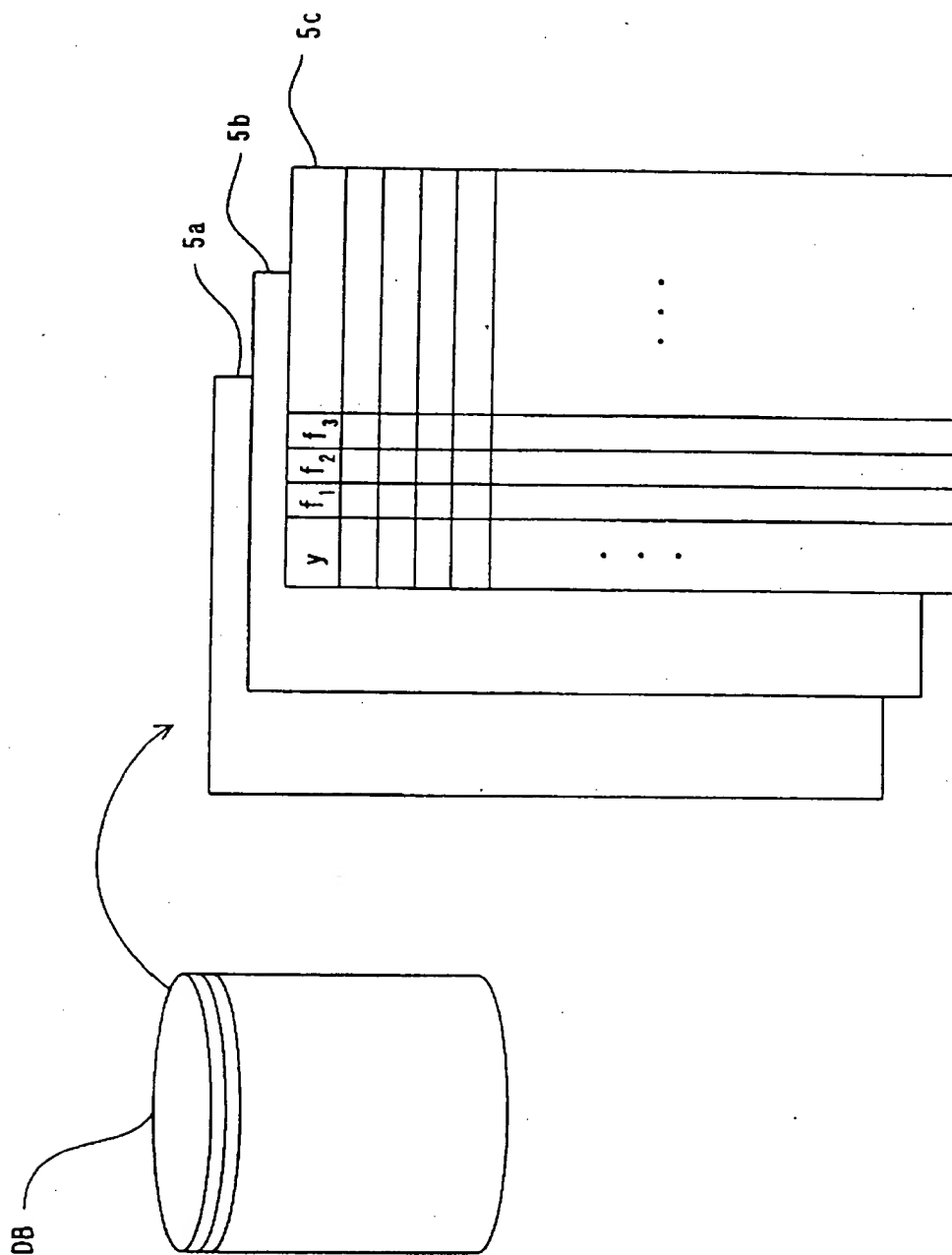
[Figure 1]

(1/11)



[Figure 2]

(2/11)



[Figure 3]

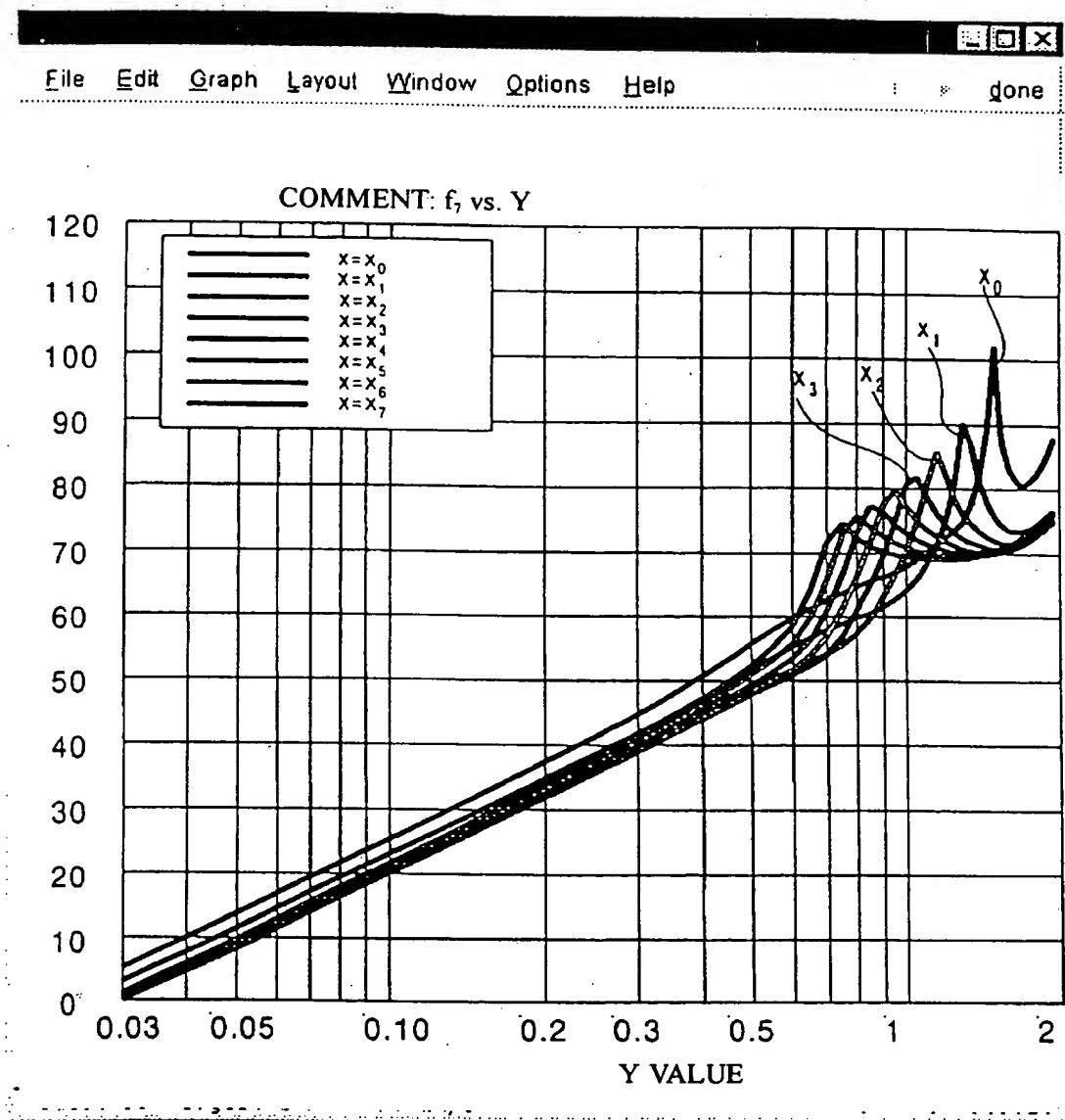
(3/11)

5a

$x=x_0$							
$y$	$f_1$	$f_2$	$f_3$	$f_4$	$f_4$	$f_5$	$f_6$
0.03	0	0	0	3	0	0	5
0.05	0	0	0	12	0	0	14
0.10	0	10	11	24	0	0	26
0.15	0	19	18	30	0	0	33
0.20	7	27	23	35	0	0	38
0.25	13	32	26	39	0	0	41
0.30	18	37	29	42	0	0	45
0.35	23	42	31	45	3	2	48
0.40	25	45	33	47	6	9	51
0.45	26	49	35	48	9	14	53
0.50	26	51	36	50	12	19	56
0.55	26	54	37	51	14	24	58
0.60	27	56	38	53	15	28	60
0.65	28	57	38	54	17	32	61
0.70	29	59	38	55	18	35	63
0.75	30	60	38	56	20	37	64
0.80	31	61	38	57	20	39	65
0.85	33	61	36	57	21	40	66
0.90	35	62	32	58	22	41	66
0.95	37	62	16	59	21	43	67
1.00	40	63	33	59	21	44	68
1.05	43	64	41	60	18	45	69
1.10	46	65	47	60	11	47	70
1.15	49	67	51	60	13	48	71
1.20	53	68	55	61	25	50	73
1.25	56	69	59	61	32	52	74
1.30	60	71	63	62	38	55	75
1.35	65	72	68	63	44	59	78
1.40	70	75	73	67	50	64	82
1.45	78	81	82	77	59	73	90
1.50	91	92	95	91	73	86	102
1.55	77	78	81	79	60	72	88
1.60	72	75	77	76	57	68	83
1.65	70	75	75	75	55	67	81
1.70	68	76	74	75	54	67	80
1.75	67	77	73	75	54	67	81
1.80	66	78	73	75	54	69	82
1.85	66	80	72	76	54	71	84
1.90	66	82	72	76	54	73	86
1.95	66	85	72	78	54	76	88
2.00	66	89	72	80	54	80	92

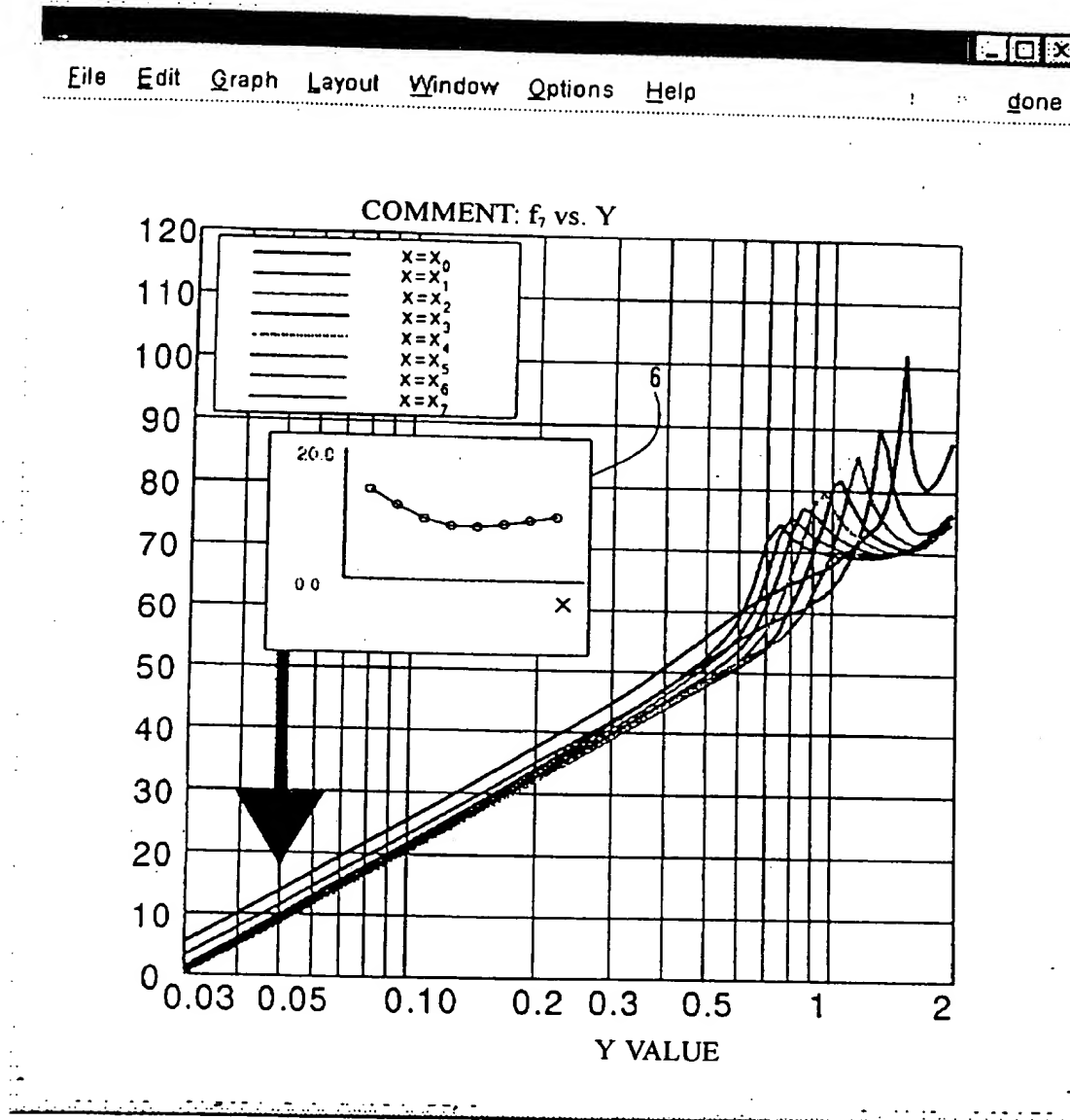
[Figure 4]

(4/11)



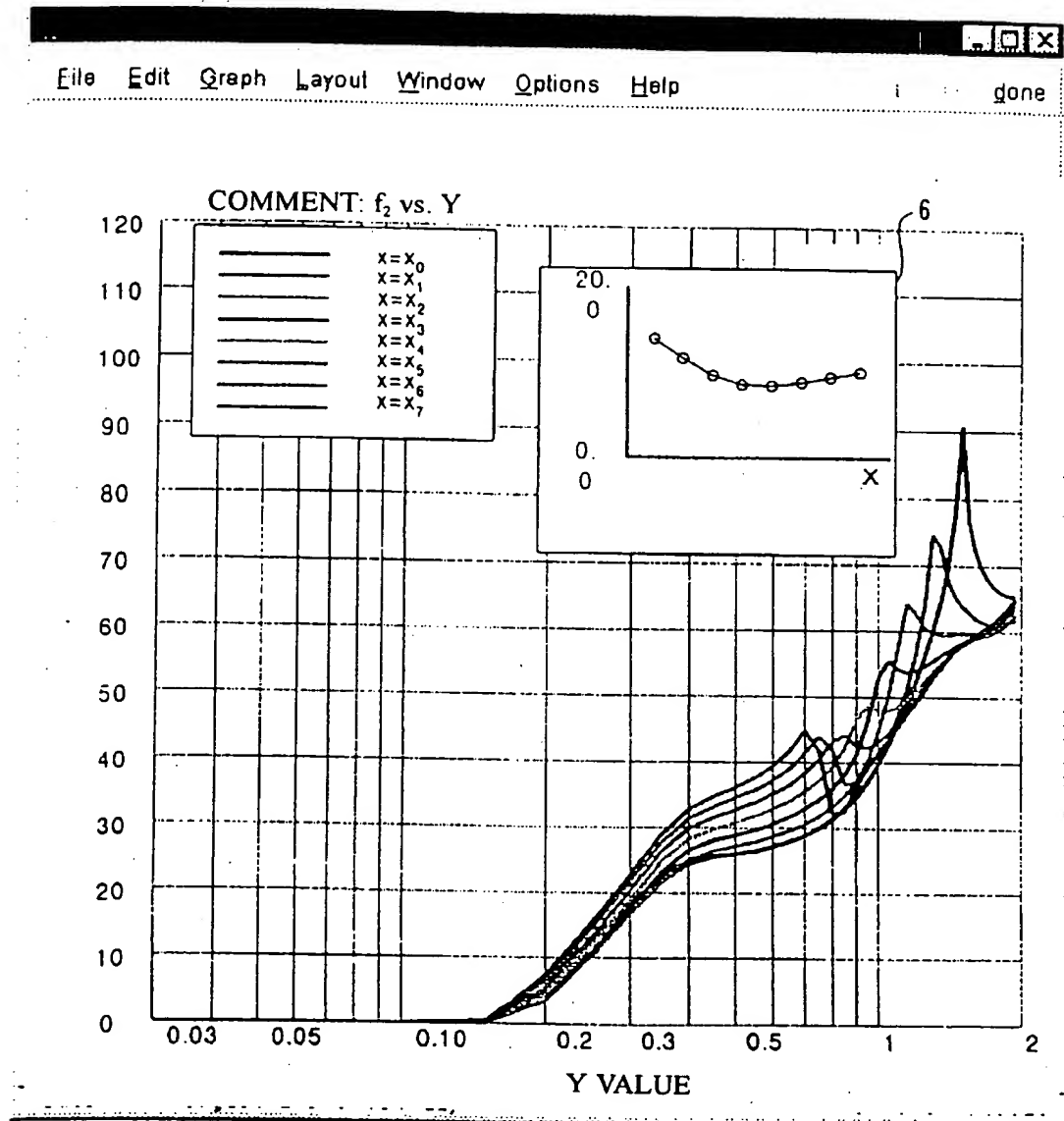
[Figure 5]

( 5 / 11 )



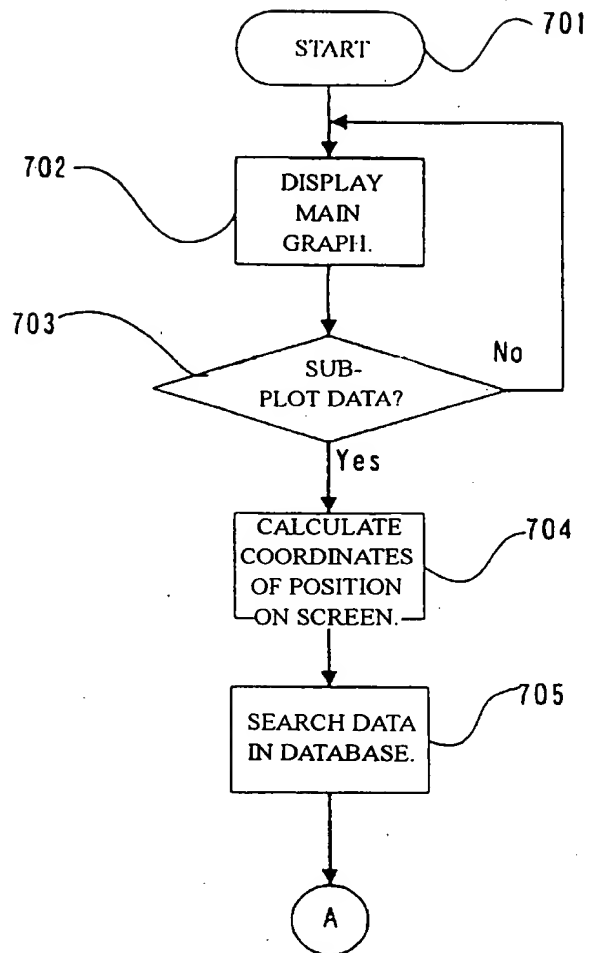
[Figure 6]

(6/11)



[Figure 7]

(7/11)



[Figure 8]

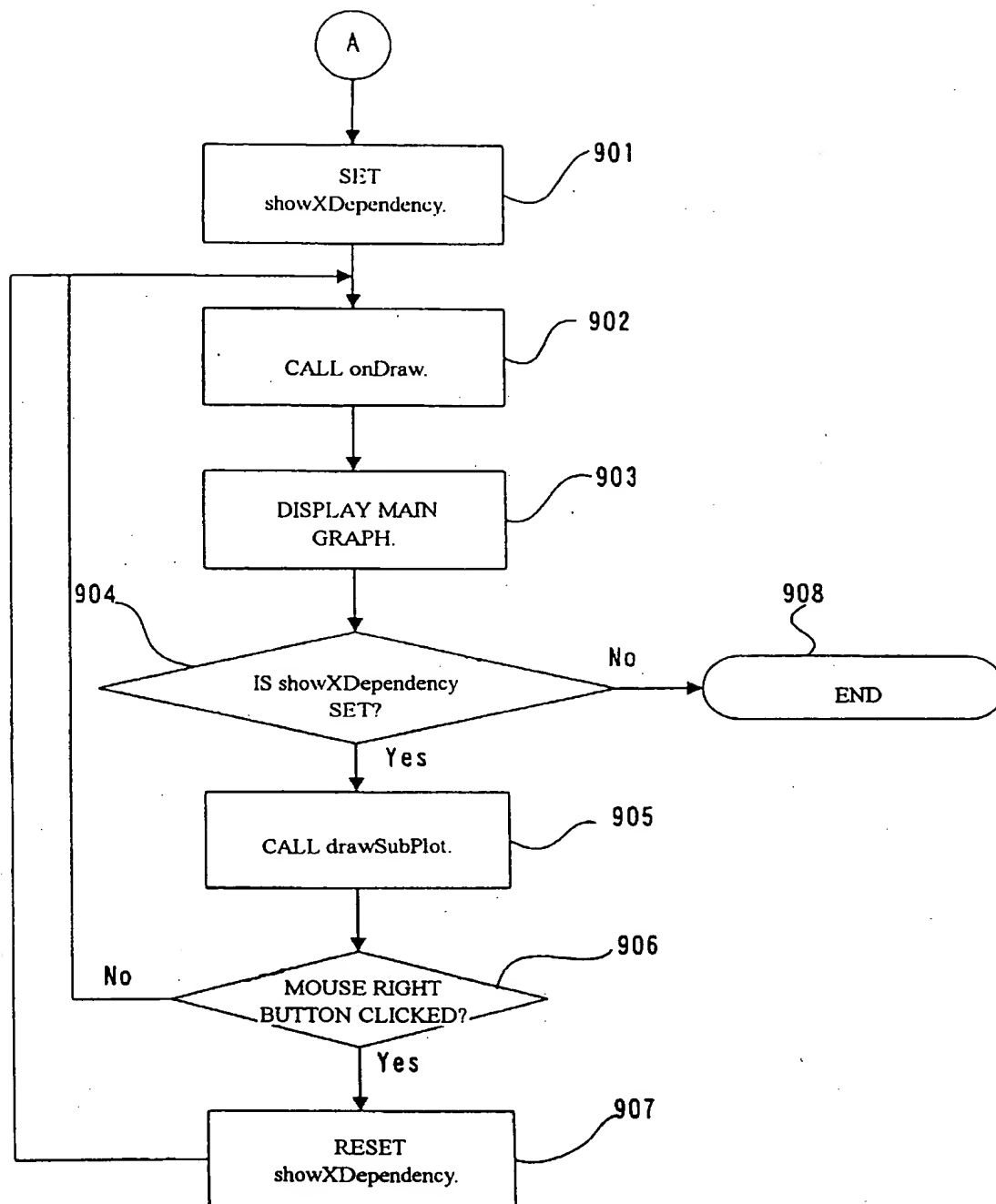
(8/11)

X[2]		X=X <sub>1</sub>										
		Y	f <sub>1</sub>	f <sub>2</sub>	f <sub>3</sub>	f <sub>4</sub>	f <sub>5</sub>	f <sub>6</sub>	f <sub>7</sub>			
X[1]		X=X <sub>1</sub>										
		Y	f <sub>1</sub>	f <sub>2</sub>	f <sub>3</sub>	f <sub>4</sub>	f <sub>5</sub>	f <sub>6</sub>	f <sub>7</sub>			
X[0]		X=X <sub>1</sub>										
		Y	f <sub>1</sub>	f <sub>2</sub>	f <sub>3</sub>	f <sub>4</sub>	f <sub>5</sub>	f <sub>6</sub>	f <sub>7</sub>			
	0.03	0	0	0	3	0	0	5	0	0	3	0
	0.05	0	0	0	12	0	0	14	0	0	35	0
	0.10	0	10	11	24	0	0	26	0	4	39	0
	0.15	0	19	18	30	0	0	33	0	8	42	0
	0.20	7	27	23	35	0	0	38	0	11	45	0
	0.25	13	32	28	39	0	0	41	1	14	47	0
	0.30	18	37	29	42	0	0	45	3	17	50	3
	0.35	23	42	31	45	3	2	48	5	20	52	8
	0.40	25	45	33	47	6	9	51	7	23	54	13
	0.45	28	49	35	48	9	14	53	8	26	55	17
	0.50	28	51	38	50	12	19	56	9	29	57	21
	0.55	28	54	37	51	14	24	58	9	32	58	25
	0.60	27	56	38	53	15	28	60	8	33	59	29
	0.65	28	57	38	54	17	32	61	4	34	60	33
	0.70	29	59	38	55	18	35	63	0	35	61	38
	0.75	30	60	38	56	20	37	64	8	35	62	43
	0.80	31	61	38	57	20	39	65	17	36	63	49
	0.85	33	61	38	57	21	40	66	23	37	64	55
	0.90	35	62	32	58	22	41	66	28	38	66	53
	0.95	37	62	16	59	21	43	67	33	40	69	49
	1.00	40	63	33	59	21	44	68	38	43	71	48
	1.05	43	64	41	60	18	45	69	43	46	75	47
	1.10	46	65	47	60	11	47	70	50	52	81	46
	1.15	49	67	51	60	13	48	71	61	63	90	46
	1.20	53	68	55	61	25	50	73	59	62	87	46
	1.25	56	69	59	61	32	52	74	54	58	81	45
	1.30	60	71	63	62	38	55	75	51	57	78	46
	1.35	65	72	68	63	44	59	78	50	57	78	46
	1.40	70	75	73	67	50	64	82	49	57	74	46
	1.45	78	81	82	77	59	73	90	49	58	74	46
	1.50	91	92	95	91	73	86	102	49	58	74	46
	1.55	77	78	81	79	60	72	88	49	58	74	46
	1.60	72	75	77	76	57	68	83	49	58	74	46
	1.65	70	75	75	75	55	67	81	49	58	74	46
	1.70	68	76	74	75	54	67	80	50	59	75	48
	1.75	67	77	73	75	54	67	81	50	59	75	
	1.80	66	78	73	75	54	69	82	50	60	75	
	1.85	66	80	72	76	54	71	84	51	61	76	
	1.90	66	82	72	76	54	73	86				
	1.95	66	85	72	78	54	76	88				
	2.00	66	89	72	80	54	80	92				



[Figure 9]

(9/11)



[Figure 10]

(10/11)

## CMomentView class pseudo code

## [Main Routine]

// definition

xData: CMomentDoc data

xIndex: an index denoting a specificCMomentData

selection: specification of one of  $f_1, f_2, f_3, \dots$  to be displayed on the main graph

showXDependency: a flag denoting whether to display sub-plotted data

subPlotPosition: a position for displaying sub-plotted data

// Processing

// 1. Obtaining a display screen size

getScreenSize()

// 2. Setting items on the main graph, such as horizontal axis range, vertical axis range, grid, plotting color, plotting line type, font, etc.

setMainGraphAttribute()

// 3. Calculating place and size for drawing a graph

setGraphPositionAndSize()

// 4. Reading xData

getData(xData, xIndex)

// 5. Displaying part of xData selected by "selection" on the main graph

drawMainGraph(xData, xIndex, selection)

// 6. Displaying sub-plotted data

drawSubPlot(xData, xIndex, selection, showXDependency, subPlotPosition);

[Figure 11]

(11/11)

## DETAILS OF SUBROUTINE drawSubPlot()

// definition

subPlotYIndex: an index denoting the position of a variable Y to be isolated by sub-plotting

subPlotY[]: a value of data to be sub-plotted

// 6.1 When displaying sub-plotted data

if(showXDependency) {

// 6.1.1 Selecting the position of a variable Y to be sub-plotted

subPlotYIndex=setSubPlotY();

// 6.1.2

For example, in order to reference to the data in the variable Y of the CMomentData class instance denoted by xIndex, selected in 6.1.1 at selection=f<sub>1</sub>;

xData -&gt; setIndex(xIndex);

xData -&gt; X() -&gt; setIndex(subPlotYIndex);

subplot[xIndex]=xData -&gt; X() -&gt; f1();

The above processings are repeated for each instance of the CMomentData class specified by sub-plottingxIndex.

// 6.1.3 Setting size and position of sub-plotting

For example, 1/4 height of the size of the main plotting in the vertical direction and size in the horizontal direction in proportion to the number of plotting parameters d. The position denotes a position where the mouse button is clicked.

setSubPlotSize();

// 6.1.4 Setting both maximum and minimum values of the vertical axis of sub-plotting

For example, the values are set to be equal to the maximum and minimum values of data which exhibit the maximum and minimum values.

setSubPlotAttribute();

// 6.1.5 Drawing sub-plotting

drawSubPlot()

} // end of if (showXDependency)